

## UltraStudio 4K



Rack mount Thunderbolt or Thunderbolt 2 based capture and playback "break out box" with latest high performance technology including 4:4:4 and dual channel 3D stereoscopic, Ultra HD and 4K capture and playback. UltraStudio 4K is the solution you need when doing high performance work that demands quality. Packed with the latest SDI, HDMI and analog video, timecode connections, as well as AES/EBU, balanced and unbalanced analog audio. There is no better solution for video capture and playback!

**\$995**

[Download Manual](#) [Download Software](#)

### Connections

#### SDI Video Inputs

2 x 10-bit SD/HD/2K/4K and 2D/3D switchable. Supports 3Gb/s and 6Gb/s single link and dual link.

#### SDI Video Outputs

2 x 10-bit SD/HD/2K/4K and 2D/3D switchable. Supports 3Gb/s and 6Gb/s single link and dual link.

#### SDI Video Loop

2 x reclocked 10-bit SD/HD/2K/4K. Supports 3Gb/s and 6Gb/s.

#### Analog Video Inputs

1 x Component YUV on 3 BNCs. 1 x composite on 1 BNC.

#### Analog Video Outputs

1 x Component YUV on 3 BNCs. 1 x composite on 1 BNC.

#### Analog Audio Inputs

2 Channels of professional balanced analog audio via XLR connectors and 2 channels of consumer unbalanced via RCA connections.

#### Analog Audio Outputs

2 Channels of professional balanced analog audio via XLR connectors.

#### AES/EBU Audio Inputs

2 Channels unbalanced with sample rate converter on BNC connector.

#### AES/EBU Audio Outputs

2 Channels unbalanced with sample rate converter on BNC connector.

#### SDI Audio Inputs

16 Channels embedded in SD/HD/2K/4K.

#### SDI Audio Outputs

16 Channels embedded in SD/HD/2K/4K.

#### HDMI Video Inputs

1 x HDMI type A connector including 3D frame packing and Ultra HD support.

#### HDMI Video Outputs

1 x HDMI type A connector including 3D frame packing and Ultra HD support.

#### HDMI Audio Inputs

8 Channels embedded in SD/HD/4K.

#### HDMI Audio Outputs

8 Channels embedded in SD/HD/4K.

#### Timecode Input

1 x XLR for LTC Input.

#### Timecode Output

1 x XLR for LTC Output.

#### Sync Input

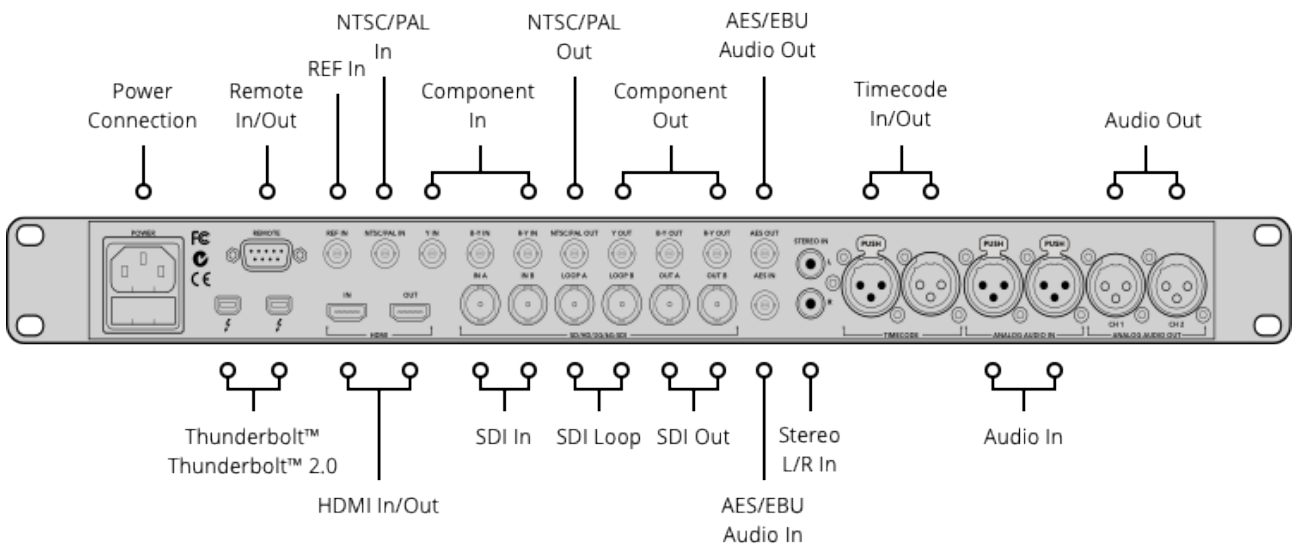
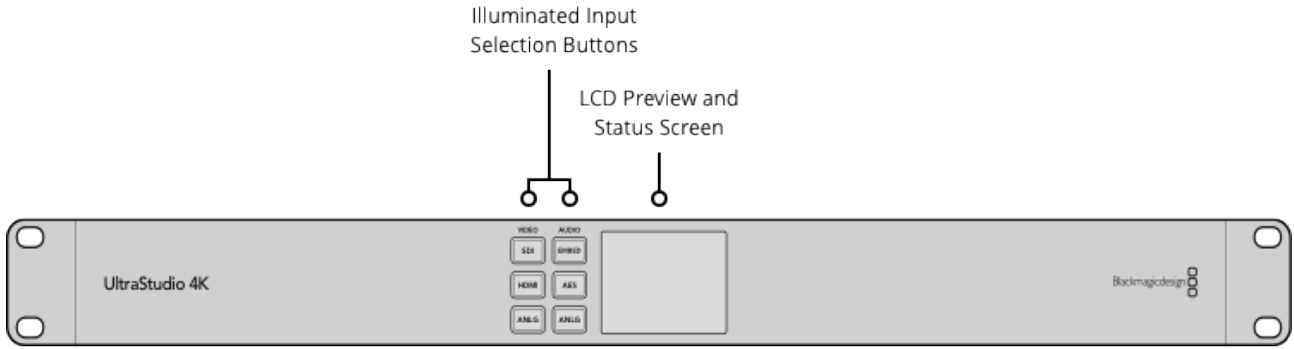
1 x Reference input. Tri-Sync or Black Burst.

#### Device Control

Sony™ compatible RS422 deck control port. Serial ports TxRx direction reversible under software control.

#### Computer Interface

Thunderbolt™ or Thunderbolt™ 2



## Supported Codecs

AVC-Intra, AVCHD, Canon XF MPEG2, Digital SLR, DV-NTSC, DV-PAL, DVCPRO50, DVCPROHD, DPX, HDV, XDCAM EX, XDCAM HD, XDCAM HD422, DNxHR & DNxHD, Apple ProRes 4444, Apple ProRes 422 HQ, Apple ProRes 422, Apple ProRes LT, Apple ProRes 422 Proxy, Uncompressed 8-bit 4:2:2, Uncompressed 10-bit 4:2:2, Uncompressed 10-bit 4:4:4.

## Software

### Software Included

Media Express, Disk Speed Test, LiveKey, Blackmagic Desktop Video Utility and Blackmagic driver on Mac OS and Windows . Media Express, Blackmagic Desktop Video Utility and Blackmagic driver on Linux.

### Internal Software Upgrade

Firmware built into software driver. Software driver loads upgrades at system start or via updater software.

## Software Applications



DaVinci Resolve



Avid Media Composer



Steinberg Nuendo



Fusion



Adobe After Effects CC



Adobe Photoshop CC



Final Cut Pro X



Avid Pro Tools



Adobe Premiere Pro CC



Steinberg Cubase

**Other supported applications include:** The Foundry Nuke, Grass Valley Edius, Sony Catalyst Production Suite, Tools On Air Just: Play & Live & In, Softron MovieRecorder & MReplay, Adobe Flash Media Live Encoder, Telestream Wirecast, Livestream Producer, Resolume Arena, Magix Vegas Pro & Movie Edit Pro Premium, Corel VideoStudio Pro, CyberLink PowerDirector, Vidblaster X & Studio & Broadcast, Uniplay One & CG, CasparCG Server, Magicsoft CG, Xsplit Broadcaster, Imagine Communications Velocity & InfoCaster, DevTek Easy Media Suite, Metus Ingest, Boinx Software MimoLive, Cinegy Capture Pro, vMix Live, Renewed Vision ProPresenter, Ventuz Director, Class X Liveboard & Coral CG, Glookast Capturer, Open Broadcaster Software Studio, Nautilus NEMO3D.

## SDI Video Standards

### SD Video Standards

525i29.97 NTSC, 625i25 PAL

### HD Video Standards

720p50, 720p59.94, 720p60  
1080p23.98, 1080p24, 1080p25,  
1080p29.97, 1080p30, 1080p50,  
1080p59.94, 1080p60  
1080PsF23.98, 1080PsF24,  
1080PsF25, 1080PsF29.97, 1080PsF30  
1080i50, 1080i59.94, 1080i60

### 2K Video Standards

2K DCI 23.98p, 2K DCI 24p, 2K DCI  
25p  
2K DCI 23.98PsF, 2K DCI 24PsF, 2K  
DCI 25PsF

### Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25,  
2160p29.97, 2160p30, 2160p50\*,  
2160p59.94\*, 2160p60\*  
\*Output only

### 4K Video Standards

4K DCI 23.98p, 4K DCI 24p, 4K DCI  
25p

### 3D Video Standards

720p50, 720p59.94, 720p60  
1080p23.98, 1080p24, 1080p25,  
1080p29.97, 1080p30,  
1080PsF23.98, 1080PsF24,  
1080PsF25, 1080PsF29.97, 1080PsF30  
1080i50, 1080i59.94, 1080i60  
2K DCI 23.98p, 2K DCI 24p, 2K DCI  
25p  
2K DCI 23.98PsF, 2K DCI 24PsF, 2K  
DCI 25PsF

### SDI Compliance

SMPTE 259M, SMPTE 292M, SMPTE  
296M, SMPTE 372M, SMPTE 425M,  
SMPTE 20181, ITU-R BT.656 and ITU-R  
BT.601.

### SDI Metadata Support

RP 188/SMPTE 12M-2 and closed  
captioning.

### SDI Audio Sampling

Television standard sample rate of 48  
kHz and 24-bit.

### SDI Video Sampling

4:2:2 and 4:4:4\*

\*4K is 4:2:2

### SDI Color Precision

10-bit YUV up to 4K, 12-bit\* RGB in  
HD and 2K \*Output only

### SDI Color Space

REC 601, REC 709

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## HDMI Video Standards

### SD Video Standards

525i29.97 NTSC, 625i25 PAL

### HD Video Standards

720p50, 720p59.94, 720p60  
1080p23.98, 1080p24, 1080p25,  
1080p29.97, 1080p30, 1080p50,  
1080p59.94, 1080p60  
1080i50, 1080i59.94, 1080i60

### Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25,  
2160p29.97, 2160p30, 2160p50\*,  
2160p59.94\*, 2160p60\*  
\*Output only

### 4K Video Standards

4K DCI 23.98p, 4K DCI 24p

### 3D Video Standards

720p50, 720p59.94, 720p60  
1080p23.98, 1080p24, 1080p25,  
1080p29.97, 1080p30,  
1080i50, 1080i59.94, 1080i60

### HDMI Audio Sampling

Television standard sample rate of 48  
kHz and 24-bit.

### HDMI Video Sampling

4:4:4, 4:2:2 & 4:2:0

### HDMI Color Precision

10-bit RGB in HD, 10-bit YUV in HD  
and 4K

### HDMI Configuration

HDMI 1.4b. Automatically configures  
to connected display.

### Multiple Rate Support

HDMI and SDI video connections are  
switchable between SD/HD/2K and  
4K. Component analog video  
connections are switchable between  
SD and HD.

### HDMI Resolution

Pixel for pixel up to 4K resolutions.

### Copy Protection

HDMI input is unable to capture from  
copy protected HDMI sources. Always  
confirm copyright ownership before  
capture or distribution of content.

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## Processing

### HD to SD Down Conversion

Built in, high quality hardware down  
converter outputs HD-SDI on SDI A  
output, SD-SDI on SDI B output and  
Composite and S-Video when working  
in HD video formats on playback.  
Switch analog video to Component  
and choose HD or SD output.  
Selectable between letterbox,  
anamorphic 16:9 and center cut 4:3  
styles.

### HD Up Conversion

Built in, high quality hardware up  
conversion from SD to 720HD or  
1080HD on playback. Selectable  
between 4:3 pillarbox, 14:9 pillarbox  
and 16:9 zoom. HD outputs via HD-  
SDI, HDMI and component analog.

### HD Cross Conversion

Built in, high quality hardware cross  
conversion from 720HD to 1080HD  
and 1080HD to 720HD on playback.

### Real Time Effects

DaVinci Resolve, Final Cut Pro X  
internal effects. Adobe Premiere Pro  
CC Mercury Playback Engine effects.  
Avid Media Composer internal  
effects.

### Colorspace Conversion

Hardware based real time.

### 3D Processing

Dual stream and frame packed  
capture & playback.

## Physical Installation

Requires a computer with a Thunderbolt or Thunderbolt 2 port. Please check support pages to see the full system requirement.

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## Operating Systems



Mac OS X 10.11 El Capitan, macOS 10.12 Sierra or later.



Windows 7, 8.1 and 10, all 64-bit.



Linux

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## Power Requirements

1 x Internal 100 - 240V AC.

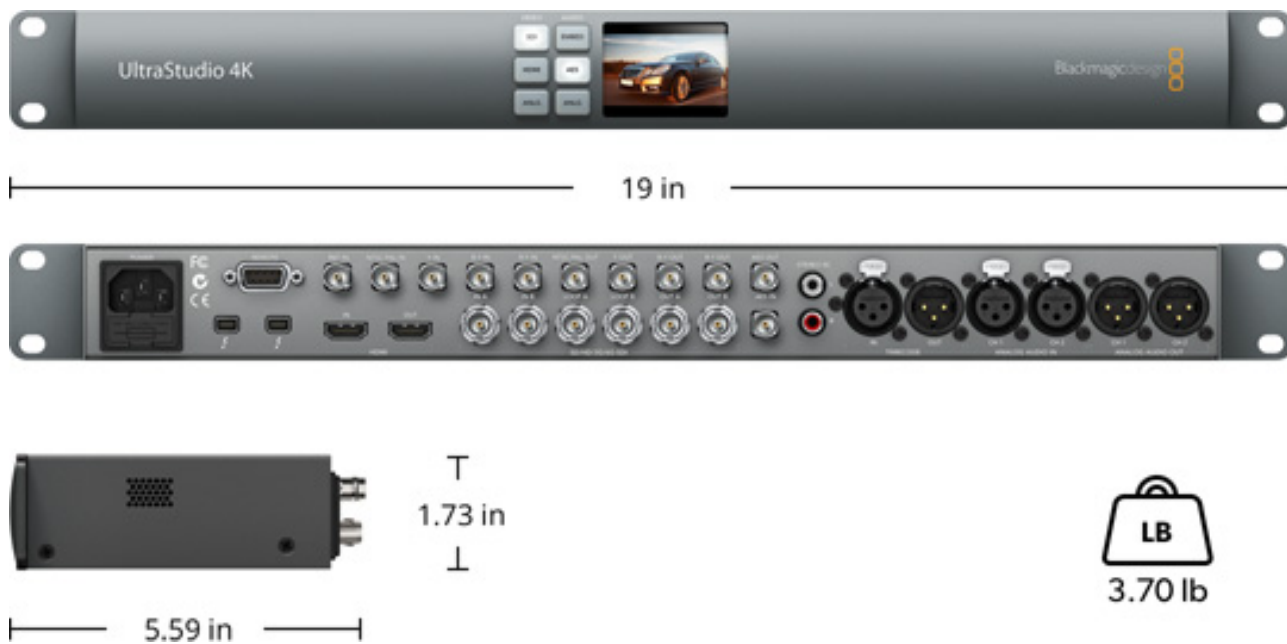
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## EMC Certifications

FCC, CE and C-Tick.

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## Physical Specifications



## Environmental Specifications

### Operating Temperature

0° to 40° C (32° to 104° F)

### Storage Temperature

-20° to 60° C (-4° to 140° F)

### Relative Humidity

0% to 90% non-condensing

## What's Included

UltraStudio 4K  
SD card with software and manual

## Warranty

3 Year Limited Manufacturer's Warranty.

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